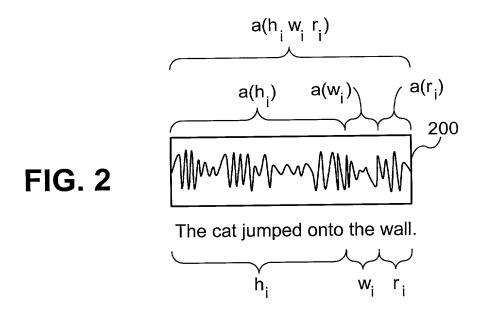
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110 Create Evaluation and Synthesizer Models 120 **Create Product Machine** 130 Create Probability Flow Matrix 140 Determine Synthetic Likelihoods 150 **Determine Confusability** 160 Normalize and Smooth Confusability 170 **Determine Acoustic Perplexity** 180 **Determine SAWER**

FIG. 1

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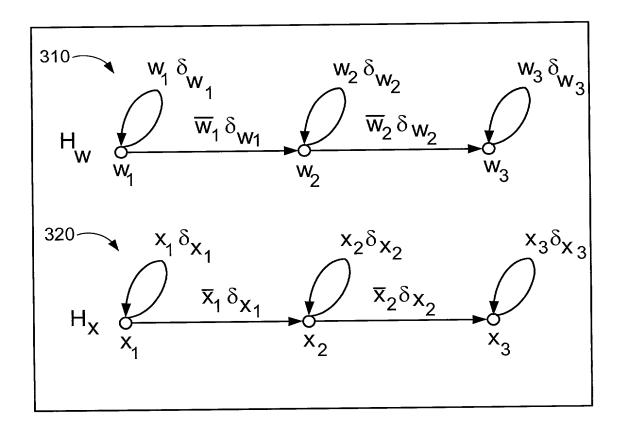
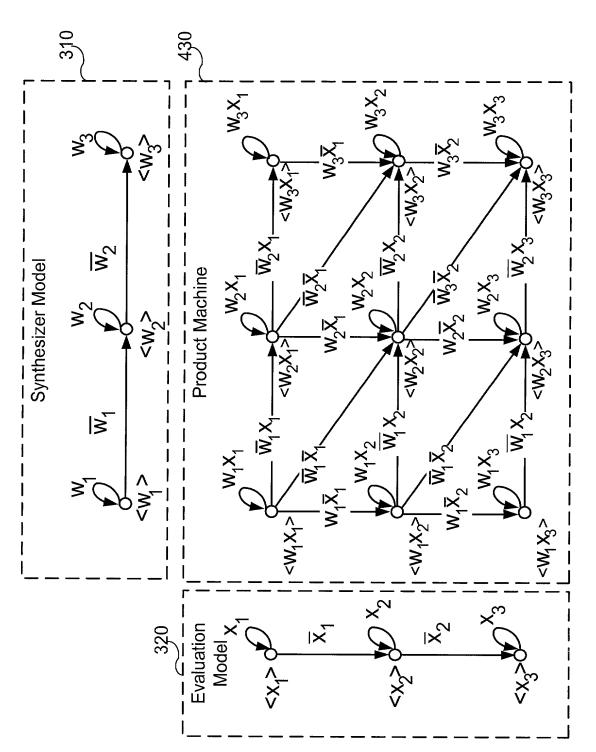


FIG. 3



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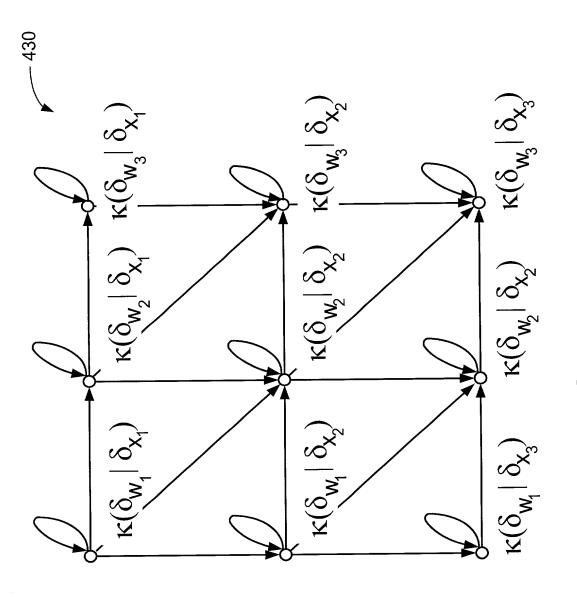


FIG. 5

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630	0								
640 \	W_1X_1	W_1X_2	W_1X_3	W ₂ X ₁	W_2X_2	W_2X_3	W_3X_1	W_3X_2	W_3X_3
$\mathbf{W}_{1}\mathbf{X}_{1}$	601	0	0	0	0	1 0 1	0	I ()	0
W_1X_2	602	603	0	0	0	0	0	1	0
W_1X_3	0	604	<u>605</u>	0	0	0	0	0	0
W_2X_1	606	0	0	<u>607</u>	0	0	0	0	0
W_2X_2	608	609	0	610	611	0	0	0	0
W_2X_3	0	612	613	0	614	<u>615</u>	0	0	0
W_3X_1	0	0	0	616	0	0	617	0	0
W_3X_2	0	0	0	618	619	0	620	621	0
W_3X_3	0	0	0	0	622	623	0	624	625

FIG. 6



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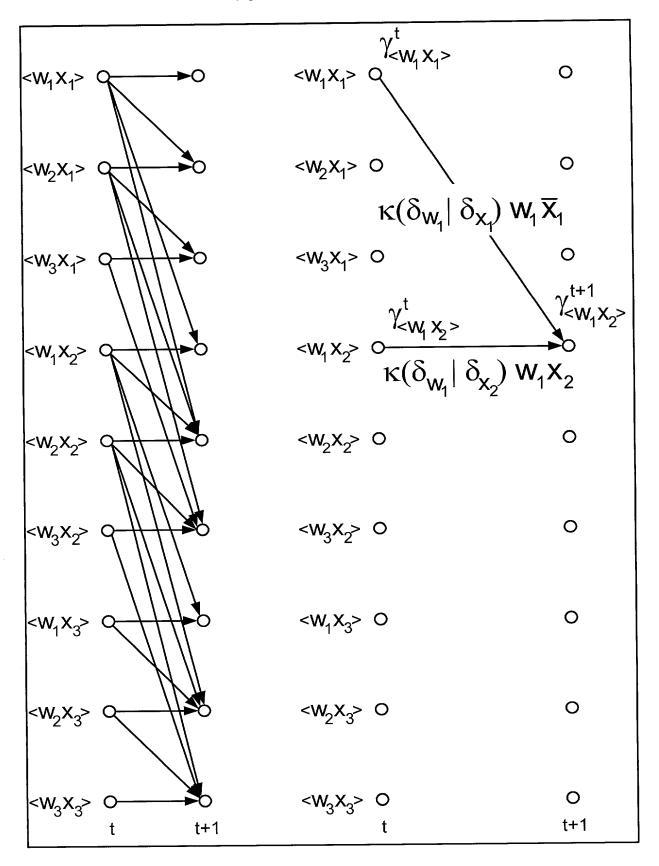


FIG. 7

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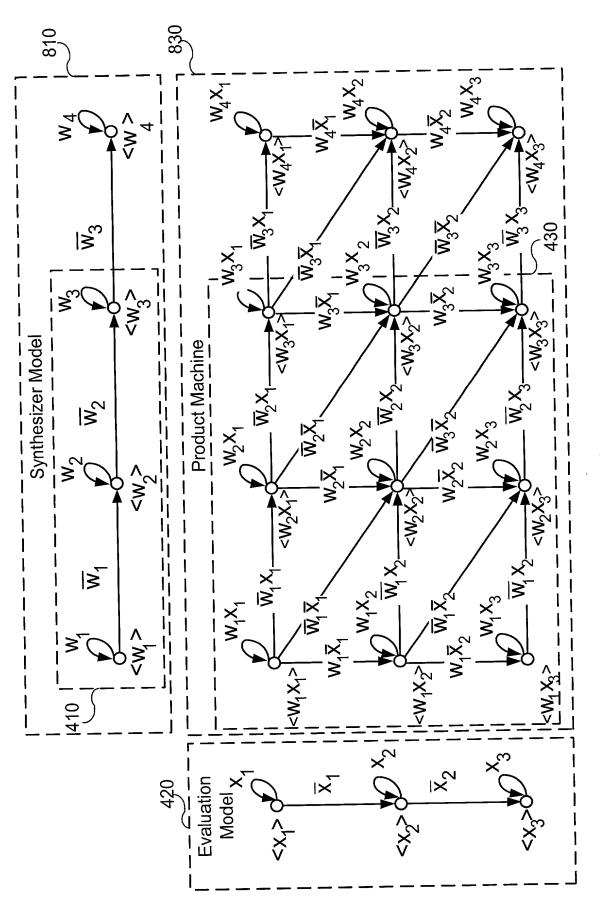


FIG. 8

930

	W_1X_1	W_1X_2	W_1X_3	W_2X_1	W_2X_2	W_2X_3	W_3X_1	W_3X_2	W_3X_3	W_4X_1	W_4X_2	W_4X_3	\
W_1X_1	<u>701</u>	0	0	0	0	0	0	0	0	0	0	0	\mathbf{r}_1
W_1X_2	<u>702</u>	<u>703</u>	0	0	0	0	0	0	0	0	0	0	r ₂
W_1X_3	0	<u>704</u>	<u>705</u>	0	0	0	0	0	0	0	0	0	r ₃
V_2X_1	<u>706</u>	0	0	<u>707</u>	0	0	0	0	0	0	0	0	r ₄
V_2X_2	<u>708</u>	<u>709</u>	0	710	<u>711</u>	0	0	0	0	0	0	0	r ₅
X_2 X_2 X_3 X_3 X_3	0	<u>712</u>	<u>713</u>	0	<u>714</u>	<u>715</u>	<u>0</u>	<u>0</u>	0	<u>0</u>	<u>0</u>	<u>0</u>	r ₆
X_3X_1	0	0	<u>716</u>	0	0	0	<u>717</u>	0	0	0	0	0	r 7
V ₃ X ₂ V ₃ X ₃	0	0	<u>718</u>	<u>719</u>	0	0	<u>720</u>	<u>721</u>	0	0	0	0	r ₈
	0	0	0	0	<u>722</u>	<u>723</u>	0	<u>724</u>	<u>725</u>	0	0	0	r 9
V_4X_1	0	0	0	0	0	0	<u>1001</u>	0	0	<u>1002</u>	0	0	r ₁₀
V_4X_2	0	0	0	0	0	0	<u>1003</u>	0	<u>1004</u>	0	1005	0	r ₁₁
V_4X_3	0	0	0	0	0	0	0	1007	1008	0	<u>1009</u>	<u>1010</u>	r ₁₂
,				60	0								,
						900)						

FIG. 9

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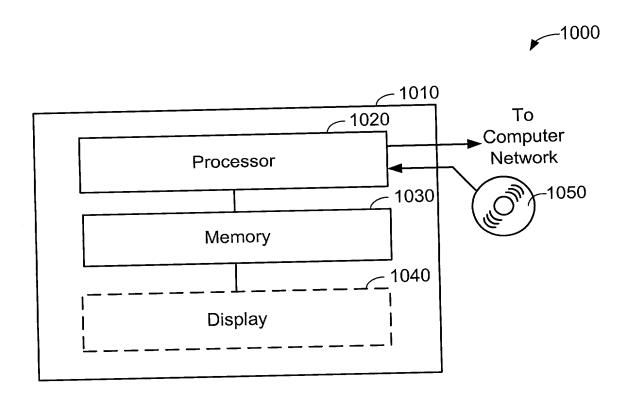


FIG. 10